

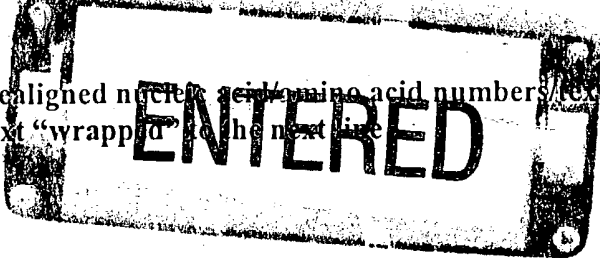
1FW16

CRF Errors Edited by the STIC Systems Branch

Serial Number: 08/390,740C

CRF Edit Date: 8/9/04
Edited by: m

Realigned nucleic acid numbers/text in cases where the sequence
text "wrapped" to the next line



Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID
NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:



IFW16

RAW SEQUENCE LISTING

DATE: 08/09/2004

PATENT APPLICATION: US/08/390,740C

TIME: 15:12:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08092004\H390740C.raw

SEQUENCE LISTING

C--> 5 (1) GENERAL INFORMATION:

7 (i) APPLICANT: Coleman, Roger
 8 Bandman, Olga
 9 Wilde, Craig G.

C--> 11 (ii) TITLE OF INVENTION: NEW CHEMOKINES EXPRESSED IN PANCREAS

13 (iii) NUMBER OF SEQUENCES: 11

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.

17 (B) STREET: 3174 Porter Drive

18 (C) CITY: Palo Alto

19 (D) STATE: CA

20 (E) COUNTRY: U.S.

21 (F) ZIP: 94304

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Diskette

25 (B) COMPUTER: IBM Compatible

26 (C) OPERATING SYSTEM: DOS

27 (D) SOFTWARE: FastSEQ Version 1.5

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/08/390,740C

C--> 31 (B) FILING DATE: 17-Feb-1995

33 (viii) ATTORNEY/AGENT INFORMATION:

34 (A) NAME: Luther, Barbara J.

35 (B) REGISTRATION NUMBER: 33,954

36 (C) REFERENCE/DOCKET NUMBER: PF-0027 US

38 (ix) TELECOMMUNICATION INFORMATION:

39 (A) TELEPHONE: 415-855-0555

40 (B) TELEFAX: 415-852-0195

43 (2) INFORMATION FOR SEQ ID NO: 1:

45 (i) SEQUENCE CHARACTERISTICS:

46 (A) LENGTH: 291 base pairs

47 (B) TYPE: nucleic acid

48 (C) STRANDEDNESS: single

49 (D) TOPOLOGY: linear

51 (ii) MOLECULE TYPE: cDNA

54 (vii) IMMEDIATE SOURCE:

55 (A) LIBRARY: Human Pancreas

56 (B) CLONE: 223187

58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

60 ATGAAGGTCT CCGCAGCACT TCTGTGGCTG CTGCTCATAG CAGCTGCCTT CAGCCCCCAG 60

61 GGGCTCACTG GGCCAGCTTC TGTCCCAACC ACCTGCTGCT TTAACCTGGC CAATAGGAAG 120

62 ATACCCCTTC AGCGACTAGA GAGCTACAGG AGAATCACCA GTGGCAAATG TCCCCAGAAA 180

RAW SEQUENCE LISTING

DATE: 08/09/2004

PATENT APPLICATION: US/08/390,740C

TIME: 15:12:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08092004\H390740C.raw

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63 GCTGTGATCT TCAAGACCAA ACTGGCCAAG GATATCTGTG CCGACCCCAA GAAGAAGTGG      240
64 GTGCAGGATT CCATGAAGTA TCTGGACCAA AAATCTCCAA CTCCAAAGCCA      291
67 (2) INFORMATION FOR SEQ ID NO: 2:
68     (i) SEQUENCE CHARACTERISTICS:
69         (A) LENGTH: 97 amino acids
70         (B) TYPE: amino acid
71         (C) STRANDEDNESS: single
72         (D) TOPOLOGY: linear
73     (ii) MOLECULE TYPE: peptide
74     (vii) IMMEDIATE SOURCE:
75         (A) LIBRARY: Human Pancreas
76         (B) CLONE: 223187
77     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
78 Met Lys Val Ser Ala Ala Leu Leu Trp Leu Leu Leu Ile Ala Ala Ala
79 1      5      10      15
80 Phe Ser Pro Gln Gly Leu Thr Gly Pro Ala Ser Val Pro Thr Thr Cys
81 20      25      30
82 Cys Phe Asn Leu Ala Asn Arg Lys Ile Pro Leu Gln Arg Leu Glu Ser
83 35      40      45
84 Tyr Arg Arg Ile Thr Ser Gly Lys Cys Pro Gln Lys Ala Val Ile Phe
85 50      55      60
86 Lys Thr Lys Leu Ala Lys Asp Ile Cys Ala Asp Pro Lys Lys Lys Trp
87 65      70      75      80
88 Val Gln Asp Ser Met Lys Tyr Leu Asp Gln Lys Ser Pro Thr Pro Lys
89 85      90      95
90 Pro
91 (2) INFORMATION FOR SEQ ID NO: 3:
92     (i) SEQUENCE CHARACTERISTICS:
93         (A) LENGTH: 402 base pairs
94         (B) TYPE: nucleic acid
95         (C) STRANDEDNESS: single
96         (D) TOPOLOGY: linear
97     (ii) MOLECULE TYPE: cDNA
98     (vii) IMMEDIATE SOURCE:
99         (A) LIBRARY: Human Pancreas
100        (B) CLONE: 226152
101     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
102 ATGGCTCAGT CACTGGCTCT GAGCCTCCTT ATCCTGGTTC TGGCCTTTGG CATCCCCAGG      60
103 ACCCAAGGCA GTGATGGAGG GGCTCAGGAC TGTTCCTCA AGTACAGCCA AAGGAAGATT      120
104 CCCGCCAAGG TTGTCCGCAG CTACCGGAAG CAGGAACCAA GCTTAGGCTG CTCCATCCCA      180
105 GCTATCCTGT TCTTGCCCCG CAAGCGCTCT CAGGCAGAGC TATGTGCAGA CCCAAAGGAG      240
106 CTCTGGGTGC AGCAGCTGAT GCAGCATCTG GACAAGACAC CATCCCCACA GAAACCAGCC      300
107 CAGGGCTGCA GGAAGGACAG GGGGGCCTCC AAGACTGGCA AGAAAGGAAA GGGCTCCAAA      360
108 GGCTGCAAGA GGAAGGACAG GTCACAGACC CCTAAAGGGC CA      402
109 (2) INFORMATION FOR SEQ ID NO: 4:
110     (i) SEQUENCE CHARACTERISTICS:
111         (A) LENGTH: 134 amino acids
112         (B) TYPE: amino acid
113         (C) STRANDEDNESS: single

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RAW SEQUENCE LISTING

DATE: 08/09/2004

PATENT APPLICATION: US/08/390,740C

TIME: 15:12:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08092004\H390740C.raw

```

130      (D) TOPOLOGY: linear
132      (ii) MOLECULE TYPE: peptide
134      (vii) IMMEDIATE SOURCE:
135          (A) LIBRARY: Human Pancreas
136          (B) CLONE: 226152
138      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
140 Met Ala Gln Ser Leu Ala Leu Ser Leu Ile Leu Val Leu Ala Phe
141 1      5      10      15
142 Gly Ile Pro Arg Thr Gln Gly Ser Asp Gly Gly Ala Gln Asp Cys Cys
143      20      25      30
144 Leu Lys Tyr Ser Gln Arg Lys Ile Pro Ala Lys Val Val Arg Ser Tyr
145      35      40      45
146 Arg Lys Gln Glu Pro Ser Leu Gly Cys Ser Ile Pro Ala Ile Leu Phe
147      50      55      60
148 Leu Pro Arg Lys Arg Ser Gln Ala Glu Leu Cys Ala Asp Pro Lys Glu
149      65      70      75      80
150 Leu Trp Val Gln Gln Leu Met Gln His Leu Asp Lys Thr Pro Ser Pro
151      85      90      95
152 Gln Lys Pro Ala Gln Gly Cys Arg Lys Asp Arg Gly Ala Ser Lys Thr
153      100     105     110
156 Gly Lys Lys Gly Lys Gly Ser Lys Gly Cys Lys Arg Thr Glu Arg Ser
157      115     120     125
158 Gln Thr Pro Lys Gly Pro
159      130
161 (2) INFORMATION FOR SEQ ID NO: 5:
163      (i) SEQUENCE CHARACTERISTICS:
164          (A) LENGTH: 97 amino acids
165          (B) TYPE: amino acid
166          (C) STRANDEDNESS: single
167          (D) TOPOLOGY: linear
169      (ii) MOLECULE TYPE: peptide
171      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
173 Met Lys Val Ser Ala Ala Leu Leu Ala Leu Leu Ile Ala Ala Ala
174 1      5      10      15
175 Phe Cys Pro Gln Gly Leu Ala Gln Pro Asp Gly Val Asp Thr Pro Thr
176      20      25      30
177 Thr Cys Cys Phe Asn Tyr Ile Asn Arg Lys Ile Pro Arg Gln Arg Leu
178      35      40      45
179 Glu Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Ser Lys Pro Ala Val
180      50      55      60
181 Ile Phe Lys Thr Lys Arg Ala Lys Gln Val Cys Ala Asp Pro Lys Glu
182      65      70      75      80
183 Lys Trp Val Gln Asp Ser Met Lys His Leu Asp Lys Gln Thr Pro Lys
184      85      90      95
185 Pro
188 (2) INFORMATION FOR SEQ ID NO: 6:
190      (i) SEQUENCE CHARACTERISTICS:
191          (A) LENGTH: 92 amino acids
192          (B) TYPE: amino acid

```

RAW SEQUENCE LISTING

DATE: 08/09/2004

PATENT APPLICATION: US/08/390,740C

TIME: 15:12:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08092004\H390740C.raw

```

193         (C) STRANDEDNESS: single
194         (D) TOPOLOGY: linear
196     (ii) MOLECULE TYPE: peptide
198     (vii) IMMEDIATE SOURCE:
199         (A) LIBRARY: GenBank
200         (B) CLONE: MIP-1a
202     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
204 Met Gln Val Ser Thr Ala Ala Leu Ala Val Leu Leu Cys Thr Met Ala
205 1          5          10          15
207 Leu Cys Asn Gln Phe Ser Ala Ser Leu Ala Ala Asp Thr Pro Thr Ala
208          20          25          30
209 Cys Cys Phe Ser Tyr Thr Ser Arg Gln Ile Pro Gln Asn Phe Ile Ala
210          35          40          45
211 Asp Tyr Phe Glu Thr Ser Ser Gln Cys Ser Lys Pro Gly Val Ile Phe
212          50          55          60
213 Leu Thr Lys Arg Ser Arg Gln Val Cys Ala Asp Pro Ser Glu Glu Trp
214          65          70          75          80
215 Val Gln Lys Tyr Val Ser Asp Leu Glu Leu Ser Ala
216          85          90
219 (2) INFORMATION FOR SEQ ID NO: 7:
221     (i) SEQUENCE CHARACTERISTICS:
222         (A) LENGTH: 92 amino acids
223         (B) TYPE: amino acid
224         (C) STRANDEDNESS: single
225         (D) TOPOLOGY: linear
227     (ii) MOLECULE TYPE: peptide
229     (vii) IMMEDIATE SOURCE:
230         (A) LIBRARY: GenBank
231         (B) CLONE: MIP-1b
233     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
235 Met Lys Leu Cys Val Thr Val Leu Ser Leu Leu Met Leu Val Ala Ala
236 1          5          10          15
237 Phe Cys Ser Pro Ala Leu Ser Ala Pro Met Gly Ser Asp Pro Pro Thr
238          20          25          30
239 Ala Cys Cys Phe Ser Tyr Thr Ala Arg Lys Leu Pro Arg Asn Phe Val
240          35          40          45
241 Val Asp Tyr Tyr Glu Thr Ser Ser Leu Cys Ser Gln Pro Ala Val Val
242          50          55          60
243 Phe Gln Thr Lys Arg Ser Lys Gln Val Cys Ala Asp Pro Ser Glu Ser
244          65          70          75          80
245 Trp Val Gln Glu Tyr Val Tyr Asp Leu Glu Leu Asn
246          85          90
249 (2) INFORMATION FOR SEQ ID NO: 8:
251     (i) SEQUENCE CHARACTERISTICS:
252         (A) LENGTH: 91 amino acids
253         (B) TYPE: amino acid
254         (C) STRANDEDNESS: single
255         (D) TOPOLOGY: linear
258     (ii) MOLECULE TYPE: peptide

```

RAW SEQUENCE LISTING

DATE: 08/09/2004

PATENT APPLICATION: US/08/390,740C

TIME: 15:12:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08092004\H390740C.raw

```

260 (vii) IMMEDIATE SOURCE:
261 (A) LIBRARY: GenBank
262 (B) CLONE: RANTES
264 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
266 Met Lys Val Ser Ala Ala Arg Leu Ala Val Ile Leu Ile Ala Thr Ala
267 1 5 10 15
268 Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro
269 20 25 30
270 Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys
271 35 40 45
272 Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val Phe
273 50 55 60
274 Val Thr Arg Lys Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp
275 65 70 75 80
276 Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser
277 85 90
280 (2) INFORMATION FOR SEQ ID NO: 9:
282 (i) SEQUENCE CHARACTERISTICS:
283 (A) LENGTH: 99 amino acids
284 (B) TYPE: amino acid
285 (C) STRANDEDNESS: single
286 (D) TOPOLOGY: linear
288 (ii) MOLECULE TYPE: peptide
290 (vii) IMMEDIATE SOURCE:
291 (A) LIBRARY: GenBank
292 (B) CLONE: MCP-1
294 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
296 Met Lys Val Ser Ala Ala Leu Leu Cys Leu Leu Leu Ile Ala Ala Thr
297 1 5 10 15
298 Phe Ile Pro Gln Gly Leu Ala Gln Pro Asp Ala Ile Asn Ala Pro Val
299 20 25 30
300 Thr Cys Cys Tyr Asn Phe Thr Asn Arg Lys Ile Ser Val Gln Arg Leu
301 35 40 45
302 Ala Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Pro Lys Glu Ala Val
303 50 55 60
304 Ile Phe Lys Thr Ile Val Ala Lys Glu Ile Cys Ala Asp Pro Lys Gln
305 65 70 75 80
307 Lys Trp Val Gln Asp Ser Met Asp His Leu Asp Lys Gln Thr Gln Thr
308 85 90 95
309 Pro Lys Thr
312 (2) INFORMATION FOR SEQ ID NO: 10:
314 (i) SEQUENCE CHARACTERISTICS:
315 (A) LENGTH: 77 amino acids
316 (B) TYPE: amino acid
317 (C) STRANDEDNESS: single
318 (D) TOPOLOGY: linear
320 (ii) MOLECULE TYPE: peptide
322 (vii) IMMEDIATE SOURCE:
323 (A) LIBRARY: GenBank

```

VERIFICATION SUMMARY

DATE: 08/09/2004

PATENT APPLICATION: US/08/390,740C

TIME: 15:12:53

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08092004\H390740C.raw

M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
1 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
0 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
1 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
54 M:238 W: Alpha Fields not Ordered, Reordered [(vi) ORIGINAL SOURCE:] of (2)



IFW16

RAW SEQUENCE LISTING

DATE: 08/06/2004

PATENT APPLICATION: US/08/390,740C

TIME: 14:29:21

Input Set : A:\Sequence Listings.txt

Output Set: N:\CRF4\08062004\H390740C.raw

SEQUENCE LISTING

Does Not Comply
Corrected Diskette Needed

W--> 1 PF-0027 US SUBSTITUTE SHEET

C--> 5 (1) GENERAL INFORMATION:

7 (i) APPLICANT: Coleman, Roger

8 Bandman, Olga

9 Wilde, Craig G.

C--> 11 (ii) TITLE OF INVENTION: NEW CHEMOKINES EXPRESSED IN PANCREAS

13 (iii) NUMBER OF SEQUENCES: 11

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.

17 (B) STREET: 3174 Porter Drive

18 (C) CITY: Palo Alto

19 (D) STATE: CA

20 (E) COUNTRY: U.S.

21 (F) ZIP: 94304

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Diskette

25 (B) COMPUTER: IBM Compatible

26 (C) OPERATING SYSTEM: DOS

27 (D) SOFTWARE: FastSEQ Version 1.5

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/08/390,740C

C--> 31 (B) FILING DATE: 17-Feb-1995

33 (viii) ATTORNEY/AGENT INFORMATION:

34 (A) NAME: Luther, Barbara J.

35 (B) REGISTRATION NUMBER: 33,954

36 (C) REFERENCE/DOCKET NUMBER: PF-0027 US

38 (ix) TELECOMMUNICATION INFORMATION:

39 (A) TELEPHONE: 415-855-0555

40 (B) TELEFAX: 415-852-0195

43 (2) INFORMATION FOR SEQ ID NO: 1:

45 (i) SEQUENCE CHARACTERISTICS:

46 (A) LENGTH: 291 base pairs

47 (B) TYPE: nucleic acid

48 (C) STRANDEDNESS: single

49 (D) TOPOLOGY: linear

51 (ii) MOLECULE TYPE: cDNA

54 (vii) IMMEDIATE SOURCE:

55 (A) LIBRARY: Human Pancreas

56 (B) CLONE: 223187

58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

60 ATGAAGGTCT CCGCAGCACT TCTGTGGCTG CTGCTCATAG CAGCTGCCTT CAGCCCCAG 60

61 GGGCTCACTG GGCCAGCTTC TGTCCCAACC ACCTGCTGCT TTAACCTGGC CAATAGGAAG 120

RAW SEQUENCE LISTING

DATE: 08/06/2004

PATENT APPLICATION: US/08/390,740C

TIME: 14:29:21

Input Set : A:\Sequence Listings.txt

Output Set: N:\CRF4\08062004\H390740C.raw

```

62 ATACCCCTTC AGCGACTAGA GAGCTACAGG AGAATCACCA GTGGCAAATG TCCCCAGAAA 180
63 GCTGTGATCT TCAAGACCAA ACTGGCCAAG GATATCTGTG CCGACCCCAA GAAGAAGTGG 240
64 GTGCAGGATT CCATGAAGTA TCTGGACCAA AAATCTCCAA CTCCAAAGCCA 291

```

67 (2) INFORMATION FOR SEQ ID NO: 2:

69 (i) SEQUENCE CHARACTERISTICS:

70 (A) LENGTH: 97 amino acids

71 (B) TYPE: amino acid

72 (C) STRANDEDNESS: single

73 (D) TOPOLOGY: linear

75 (ii) MOLECULE TYPE: peptide

77 (vii) IMMEDIATE SOURCE:

78 (A) LIBRARY: Human Pancreas

79 (B) CLONE: 223187

81 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

```

83 Met Lys Val Ser Ala Leu Leu Trp Leu Leu Ile Ala Ala Ala
84 1 5 10 15
85 Phe Ser Pro Gln Gly Leu Thr Gly Pro Ala Ser Val Pro Thr Thr Cys
86 20 25 30
87 Cys Phe Asn Leu Ala Asn Arg Lys Ile Pro Leu Gln Arg Leu Glu Ser
88 35 40 45
89 Tyr Arg Arg Ile Thr Ser Gly Lys Cys Pro Gln Lys Ala Val Ile Phe
90 50 55 60
91 Lys Thr Lys Leu Ala Lys Asp Ile Cys Ala Asp Pro Lys Lys Lys Trp
92 65 70 75 80
93 Val Gln Asp Ser Met Lys Tyr Leu Asp Gln Lys Ser Pro Thr Pro Lys
94 85 90 95
95 Pro

```

98 (2) INFORMATION FOR SEQ ID NO: 3:

100 (i) SEQUENCE CHARACTERISTICS:

101 (A) LENGTH: 402 base pairs

102 (B) TYPE: nucleic acid

103 (C) STRANDEDNESS: single

105 (D) TOPOLOGY: linear

107 (ii) MOLECULE TYPE: cDNA

109 (vii) IMMEDIATE SOURCE:

110 (A) LIBRARY: Human Pancreas

111 (B) CLONE: 226152

113 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

```

115 ATGGCTCAGT CACTGGCTCT GAGCCTCCTT ATCCTGGTTC TGGCCTTTGG CATCCCCAGG 60
116 ACCCAAGGCA GTGATGGAGG GGCTCAGGAC TGTTGCCTCA AGTACAGCCA AAGGAAGATT 120
117 CCCGCCAAGG TTGTCCGCAG CTACCGGAAG CAGGAACCAA GCTTAGGCTG CTCCATCCCA 180
118 GCTATCCTGT TCTTGCCCCG CAAGCGCTCT CAGGCAGAGC TATGTGCAGA CCCAAAGGAG 240
119 CTCTGGGTGC AGCAGCTGAT GCAGCATCTG GACAAGACAC CATCCCCACA GAAACCAGCC 300
120 CAGGGCTGCA GGAAGGACAG GGGGGCCTCC AAGACTGGCA AGAAAGGAAA GGGCTCCAAA 360
121 GGCTGCAAGA GGAAGGACAG GTCACAGACC CCTAAAGGGC CA 402

```

124 (2) INFORMATION FOR SEQ ID NO: 4:

126 (i) SEQUENCE CHARACTERISTICS:

127 (A) LENGTH: 134 amino acids

128 (B) TYPE: amino acid

RAW SEQUENCE LISTING

DATE: 08/06/2004

PATENT APPLICATION: US/08/390,740C

TIME: 14:29:21

Input Set : A:\Sequence Listings.txt

Output Set: N:\CRF4\08062004\H390740C.raw

```

129         (C) STRANDEDNESS: single
130         (D) TOPOLOGY: linear
132     (ii) MOLECULE TYPE: peptide
134     (vii) IMMEDIATE SOURCE:
135         (A) LIBRARY: Human Pancreas
136         (B) CLONE: 226152
138     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
140 Met Ala Gln Ser Leu Ala Leu Ser Leu Leu Ile Leu Val Leu Ala Phe
141   1           5           10           15
142 Gly Ile Pro Arg Thr Gln Gly Ser Asp Gly Gly Ala Gln Asp Cys Cys
143           20           25           30
144 Leu Lys Tyr Ser Gln Arg Lys Ile Pro Ala Lys Val Val Arg Ser Tyr
145           35           40           45
146 Arg Lys Gln Glu Pro Ser Leu Gly Cys Ser Ile Pro Ala Ile Leu Phe
147           50           55           60
148 Leu Pro Arg Lys Arg Ser Gln Ala Glu Leu Cys Ala Asp Pro Lys Glu
149           65           70           75           80
150 Leu Trp Val Gln Gln Leu Met Gln His Leu Asp Lys Thr Pro Ser Pro
151           85           90           95
152 Gln Lys Pro Ala Gln Gly Cys Arg Lys Asp Arg Gly Ala Ser Lys Thr
153           100          105          110
156 Gly Lys Lys Gly Lys Gly Ser Lys Gly Cys Lys Arg Thr Glu Arg Ser
157           115          120          125
158 Gln Thr Pro Lys Gly Pro
159           130
161 (2) INFORMATION FOR SEQ ID NO: 5:
163     (i) SEQUENCE CHARACTERISTICS:
164         (A) LENGTH: 97 amino acids
165         (B) TYPE: amino acid
166         (C) STRANDEDNESS: single
167         (D) TOPOLOGY: linear
169     (ii) MOLECULE TYPE: peptide
171     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
173 Met Lys Val Ser Ala Ala Leu Leu Ala Leu Leu Ile Ala Ala Ala
174   1           5           10           15
175 Phe Cys Pro Gln Gly Leu Ala Gln Pro Asp Gly Val Asp Thr Pro Thr
176           20           25           30
177 Thr Cys Cys Phe Asn Tyr Ile Asn Arg Lys Ile Pro Arg Gln Arg Leu
178           35           40           45
179 Glu Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Ser Lys Pro Ala Val
180           50           55           60
181 Ile Phe Lys Thr Lys Arg Ala Lys Gln Val Cys Ala Asp Pro Lys Glu
182           65           70           75           80
183 Lys Trp Val Gln Asp Ser Met Lys His Leu Asp Lys Gln Thr Pro Lys
184           85           90           95
185 Pro
188 (2) INFORMATION FOR SEQ ID NO: 6:
190     (i) SEQUENCE CHARACTERISTICS:
191         (A) LENGTH: 92 amino acids

```

RAW SEQUENCE LISTING

DATE: 08/06/2004

PATENT APPLICATION: US/08/390,740C

TIME: 14:29:21

Input Set : A:\Sequence Listings.txt

Output Set: N:\CRF4\08062004\H390740C.raw

```

192          (B) TYPE: amino acid
193          (C) STRANDEDNESS: single
194          (D) TOPOLOGY: linear
196      (ii) MOLECULE TYPE: peptide
198      (vii) IMMEDIATE SOURCE:
199          (A) LIBRARY: GenBank
200          (B) CLONE: MIP-1a
202      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
204 Met Gln Val Ser Thr Ala Ala Leu Ala Val Leu Leu Cys Thr Met Ala
205  1          5          10          15
207 Leu Cys Asn Gln Phe Ser Ala Ser Leu Ala Ala Asp Thr Pro Thr Ala
208          20          25          30
209 Cys Cys Phe Ser Tyr Thr Ser Arg Gln Ile Pro Gln Asn Phe Ile Ala
210          35          40          45
211 Asp Tyr Phe Glu Thr Ser Ser Gln Cys Ser Lys Pro Gly Val Ile Phe
212          50          55          60
213 Leu Thr Lys Arg Ser Arg Gln Val Cys Ala Asp Pro Ser Glu Glu Trp
214          65          70          75          80
215 Val Gln Lys Tyr Val Ser Asp Leu Glu Leu Ser Ala
216          85          90
219 (2) INFORMATION FOR SEQ ID NO: 7:
221      (i) SEQUENCE CHARACTERISTICS:
222          (A) LENGTH: 92 amino acids
223          (B) TYPE: amino acid
224          (C) STRANDEDNESS: single
225          (D) TOPOLOGY: linear
227      (ii) MOLECULE TYPE: peptide
229      (vii) IMMEDIATE SOURCE:
230          (A) LIBRARY: GenBank
231          (B) CLONE: MIP-1b
233      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
235 Met Lys Leu Cys Val Thr Val Leu Ser Leu Leu Met Leu Val Ala Ala
236  1          5          10          15
237 Phe Cys Ser Pro Ala Leu Ser Ala Pro Met Gly Ser Asp Pro Pro Thr
238          20          25          30
239 Ala Cys Cys Phe Ser Tyr Thr Ala Arg Lys Leu Pro Arg Asn Phe Val
240          35          40          45
241 Val Asp Tyr Tyr Glu Thr Ser Ser Leu Cys Ser Gln Pro Ala Val Val
242          50          55          60
243 Phe Gln Thr Lys Arg Ser Lys Gln Val Cys Ala Asp Pro Ser Glu Ser
244          65          70          75          80
245 Trp Val Gln Glu Tyr Val Tyr Asp Leu Glu Leu Asn
246          85          90
249 (2) INFORMATION FOR SEQ ID NO: 8:
251      (i) SEQUENCE CHARACTERISTICS:
252          (A) LENGTH: 91 amino acids
253          (B) TYPE: amino acid
254          (C) STRANDEDNESS: single
255          (D) TOPOLOGY: linear

```

RAW SEQUENCE LISTING

DATE: 08/06/2004

PATENT APPLICATION: US/08/390,740C

TIME: 14:29:21

Input Set : A:\Sequence Listings.txt

Output Set: N:\CRF4\08062004\H390740C.raw

```

258      (ii) MOLECULE TYPE: peptide
260      (vii) IMMEDIATE SOURCE:
261          (A) LIBRARY: GenBank
262          (B) CLONE: RANTES
264      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
266 Met Lys Val Ser Ala Ala Arg Leu Ala Val Ile Leu Ile Ala Thr Ala
267   1           5           10           15
268 Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro
269           20           25           30
270 Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys
271   35           40           45
272 Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val Phe
273   50           55           60
274 Val Thr Arg Lys Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp
275   65           70           75           80
276 Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser
277           85           90
280 (2) INFORMATION FOR SEQ ID NO: 9:
282      (i) SEQUENCE CHARACTERISTICS:
283          (A) LENGTH: 99 amino acids
284          (B) TYPE: amino acid
285          (C) STRANDEDNESS: single
286          (D) TOPOLOGY: linear
288      (ii) MOLECULE TYPE: peptide
290      (vii) IMMEDIATE SOURCE:
291          (A) LIBRARY: GenBank
292          (B) CLONE: MCP-1
294      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
296 Met Lys Val Ser Ala Ala Leu Leu Cys Leu Leu Ile Ala Ala Thr
297   1           5           10           15
298 Phe Ile Pro Gln Gly Leu Ala Gln Pro Asp Ala Ile Asn Ala Pro Val
299           20           25           30
300 Thr Cys Cys Tyr Asn Phe Thr Asn Arg Lys Ile Ser Val Gln Arg Leu
301   35           40           45
302 Ala Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Pro Lys Glu Ala Val
303   50           55           60
304 Ile Phe Lys Thr Ile Val Ala Lys Glu Ile Cys Ala Asp Pro Lys Gln
305   65           70           75           80
307 Lys Trp Val Gln Asp Ser Met Asp His Leu Asp Lys Gln Thr Gln Thr
308           85           90           95
309 Pro Lys Thr
312 (2) INFORMATION FOR SEQ ID NO: 10:
314      (i) SEQUENCE CHARACTERISTICS:
315          (A) LENGTH: 77 amino acids
316          (B) TYPE: amino acid
317          (C) STRANDEDNESS: single
318          (D) TOPOLOGY: linear
320      (ii) MOLECULE TYPE: peptide
322      (vii) IMMEDIATE SOURCE:

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VERIFICATION SUMMARY

DATE: 08/06/2004

PATENT APPLICATION: US/08/390,740C

TIME: 14:29:22

Input Set : A:\Sequence Listings.txt

Output Set: N:\CRF4\08062004\H390740C.raw

L:1 M:244 W: Invalid beginning of sequence listing, Line=[PF-0027 US SUBSTITUTE SHEET],
General Header Line Not Processed!
L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:11 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:354 M:238 W: Alpha Fields not Ordered, Reordered [(vi) ORIGINAL SOURCE:] of (2)